DHI-HY-1431

Isolator Module

· Convenient wiring: Two-wire, polarity-free
· Reliable communication: Built-in microprocessor, stable performance
· Ultra-low power consumption: Ultra-low monitoring current and alarm current
· Address Encoding: Electrical encoder writes address information to position short circuit precisely
· Simple installation: With a plug-in structure, easy to install and construct

System Overview

DHI-HY-1431 Isolator Module is a mated product of the Addressable Fire Alarm Control Panel, locating at intervals on the loop. When a short circuit fault occurs at a place at the output end of the short circuit isolator in the bus circuit, the isolator module will cut off all equipment connected to the output end of it. After elimination of the short circuit fault, the isolator module can automatically connect the isolated loop section to restore power and data, help confirm the location suffering a short circuit fault. It ensures that in case of a short circuit, only the section between the isolators will be affected. The maximum number of equipment between isolators is 32. Isolator Module is recommended to be installed in electrical wells or in modular boxes in fire compartments.

Functions

Short-circuit Protection
When a short circuit fault occurs at a place at the output end of the short circuit isolator in the bus circuit, the isolator module will cut off all equipment connected to the output end of it, thus ensuring the buses operate normally.

Electrical Encoding
Support address encoding, write detailed address information to position short circuit precisely.

Scene

It is suitable for the module box of the electric well or fire compartment.

Technical Specification

Electrical

Working Voltage	24V DC
Current	Monitoring current: ≤ 150μA Alarm current: ≤ 8mA
Short Circuit Current	450mA
Indicator	Red LED flashes once every 6 seconds during polling, flashes once every 2 seconds during malfunctioned, and remains lit during short circuit

Communication Wiring

Wiring	Two-wire, polarity-free
Addressing Method	Electrical encoder
Address Range	1–254
Communication Distance	≤ 1500 m

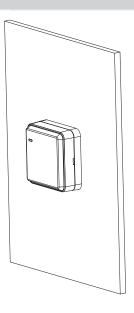### Environment

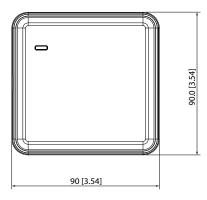|	
Operating Temperature	−10°C to +55°C (+14°F to +131°F)
Storage Temperature	−20°C to +65°C (−4°F to +149°F)
Operating Humidity	≤ 95% RH (no condensation)

Construction

Color	White
Dimensions (with base)	Φ 90 mm × 90 mm × 37 mm (Φ 3.54" × 3.54" × 1.46")
Weight (with base)	107 g (0.24 lb)

General

Certification	GB16806-2006

Installation

Dimensions (mm/inch)

90.0 [3.54]

90 [3.54]

37 [1.46]

Ordering Information

Type	Part Number	Description
Isolator Module	DHI-HY-1431	Isolator Module
Accessories	DHI-HY-MKDZ3	Isolator Module Base